

# ***Headquarters U.S. Air Force***

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***Integrity - Service - Excellence***

## **e-Business Contracting Conference**



**Brig Gen Brad Butler  
Deputy Chief Information  
Officer**

**18 November 2003**

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# Overview

- **Air Force IT Vision**
- **BMSI and other CIO Initiatives**
- **Enterprise wide IT purchasing**



***“To e-Infinity and Beyond...”***

SAF/AQC procurement transformation vision and the AF CIO eBusiness vision are aligned



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# Top-Level Leadership Direction

*Force made strategic commitment that information will transform operational effectiveness*



Secretary James G. Roche



General John P. Jumper

**We must fundamentally transform our Combat and Support capabilities by leveraging information and process improvements across the Air Force enterprise to achieve significant operational efficiencies and drive down support costs.**

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# ***Transformational Vision For Information Technology***

- CIO as advisor to advocate IT strategies
- Establishment of fundamental visionary tenets
  - Centrally-governed enterprise IT infrastructure
  - Access to information--worldwide, robust, real-time, 24/7/365, protected, scaleable, assured
  - Seamless information exchange
  - Responsible data stewardship



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# AF CIO Community

## "Across the Air Force"

- MAJCOM and Functional CIOs team together - CIO EXCOM\*
- Collaborative decision process

**CIO**  
**Mr. Gilligan**

- Review of policy, architectures, standards, performance measures
- Identify best practices
- Leverage information and IT across Air Force

**Mr. Durante**  
**(Acquisition)**

**Mr. Dunn (Logistics)**

**Mr. Kelly (Personnel)**

**Mr. Gustafson**

**(Finance)**

**Col Lee (Medical)**

**\* Execution & Warfighting**

**Integration**

**Mr. Percell (AFMC)**

**Brig Gen Webber (AFSPC)**

**Brig Gen Lord (ACC)**

**Col Basla (AMC)**

**Col Brundidge (PACAF)**

**Col DeHart (AFSOC)**

**Col Jensen (AFRC)**

**Col Schreck (AETC)**

**Col Warner (USAFE)**

**Mr. Headrick (ANG)**



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# ***Business Transformation***

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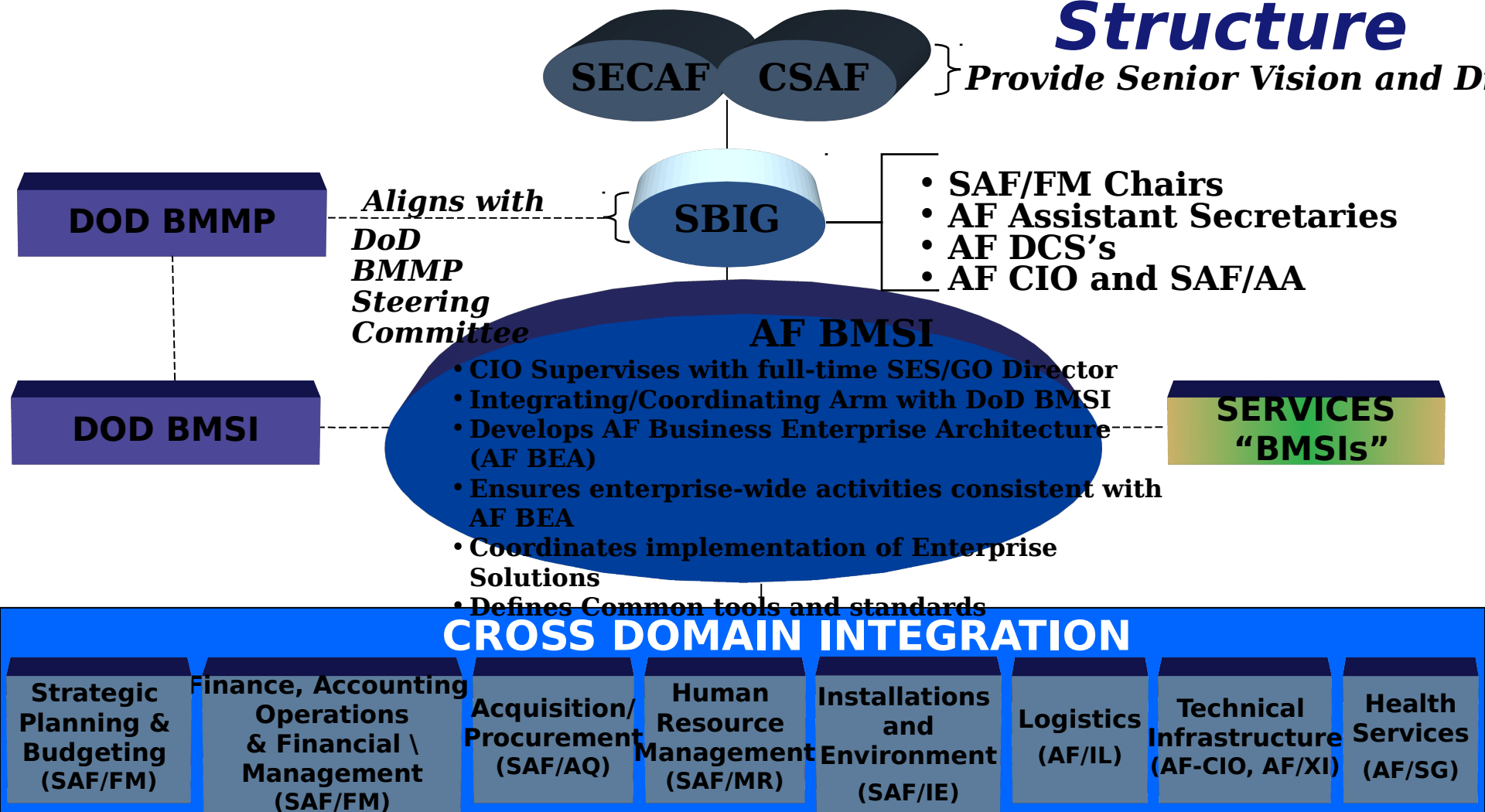
## **SECAF's Direction 24 Jul 03**

- **Defines governance structure**
- **Charters Business Systems Integration (AF BMSI) Office**
  - **Provide policy, direction, and integration for AF business enterprise solutions**
  - **Focal point for business management modernization to all external organizations**



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# Air Force Business Modernization Governance Structure



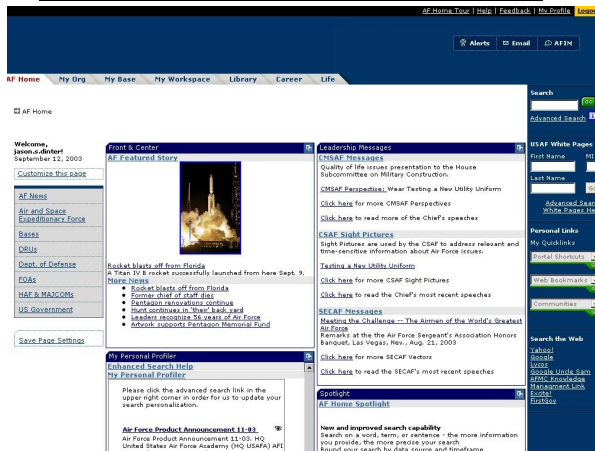
AIR FORCE BUSINESS AND COMBAT SUPPORT ENTERPRISE SOLUTIONS



# Other CIO Initiatives

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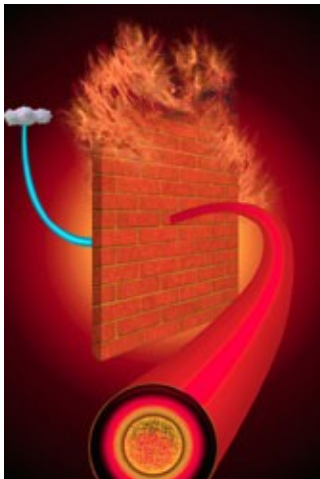
## GCSS-AF/Portal



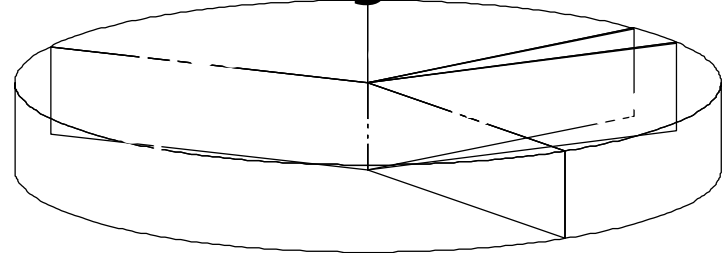
## Server Consolidation



## Cyber Security



## Budget / Portfolio Management



**AF Total \$6.5B (FY04)**





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- AF-wide availability FY04
- Integrate/eliminate cross-functional community web servers
- All web-based apps available through portal
- Self service applications
- Advanced Robust data/content search
- Role-based access
- Personalized workspace
- Knowledge library

# GCSS-AF:

## "Where we are heading"



**Implementing the vision - CSAF Goal:**  
**"Portal Accounts - Air Force Wide!"**  
**Increased platform availability - April 2004**  
**Single sign-on Summer '04**



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# Consolidated Infrastructure

- Initial focus on consolidation at base level
- Operational and cost benefits
  - IT resources cost avoidance (\$200M / yr)
  - Equipment and maintenance reductions (4,000+ servers)
  - Manpower reallocation (1000+)
  - More reliable services; Configuration control; Improved security



**Initial Consolidation Paying Big Dividends!**

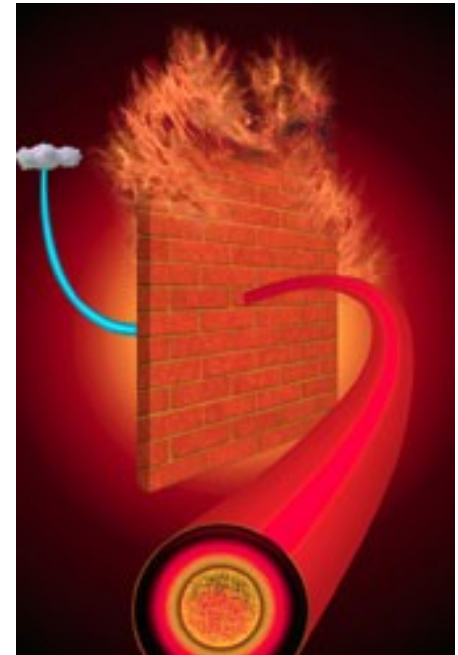
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# ***Cyber Security***

- Incident response time - Improving!
  - “I Love You” - 3-5 days
  - “Slammer” - mitigated in hours
- Development of Cyber Security Strategy
  - Software upgrades
  - Intrusion detection and reporting
  - Common access card/PKI
- Increase security measures
  - Partner with industry on software and wireless
  - Rapid automated patch distribution/verification
  - Improve certification and accreditation
  - Keep managers informed and involved



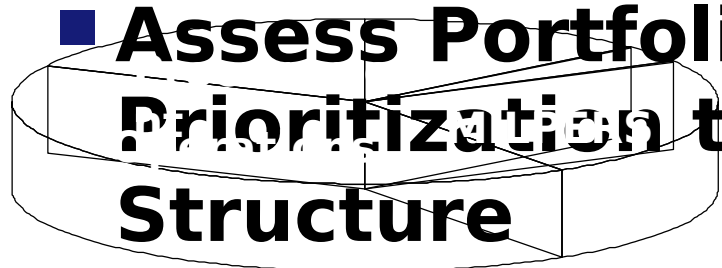


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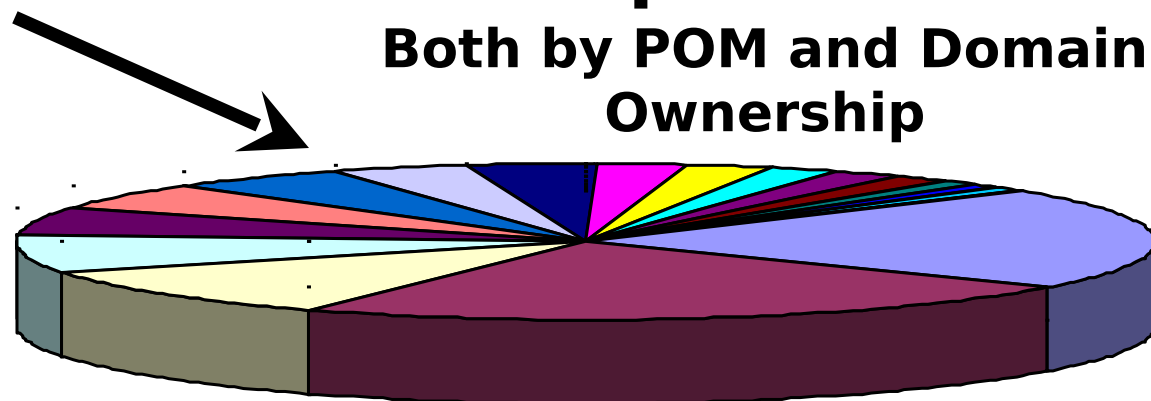
# ***IT Budget: Portfolio Management***

## ***“Way-Ahead”***

- **Need to Allocate and Manage by Portfolios**
- **POM Owners responsible for Business Cases but Functional Domain Owners provide input/review**
- **Assess Portfolios and Recommend Prioritization to Air Force Corporate Structure**



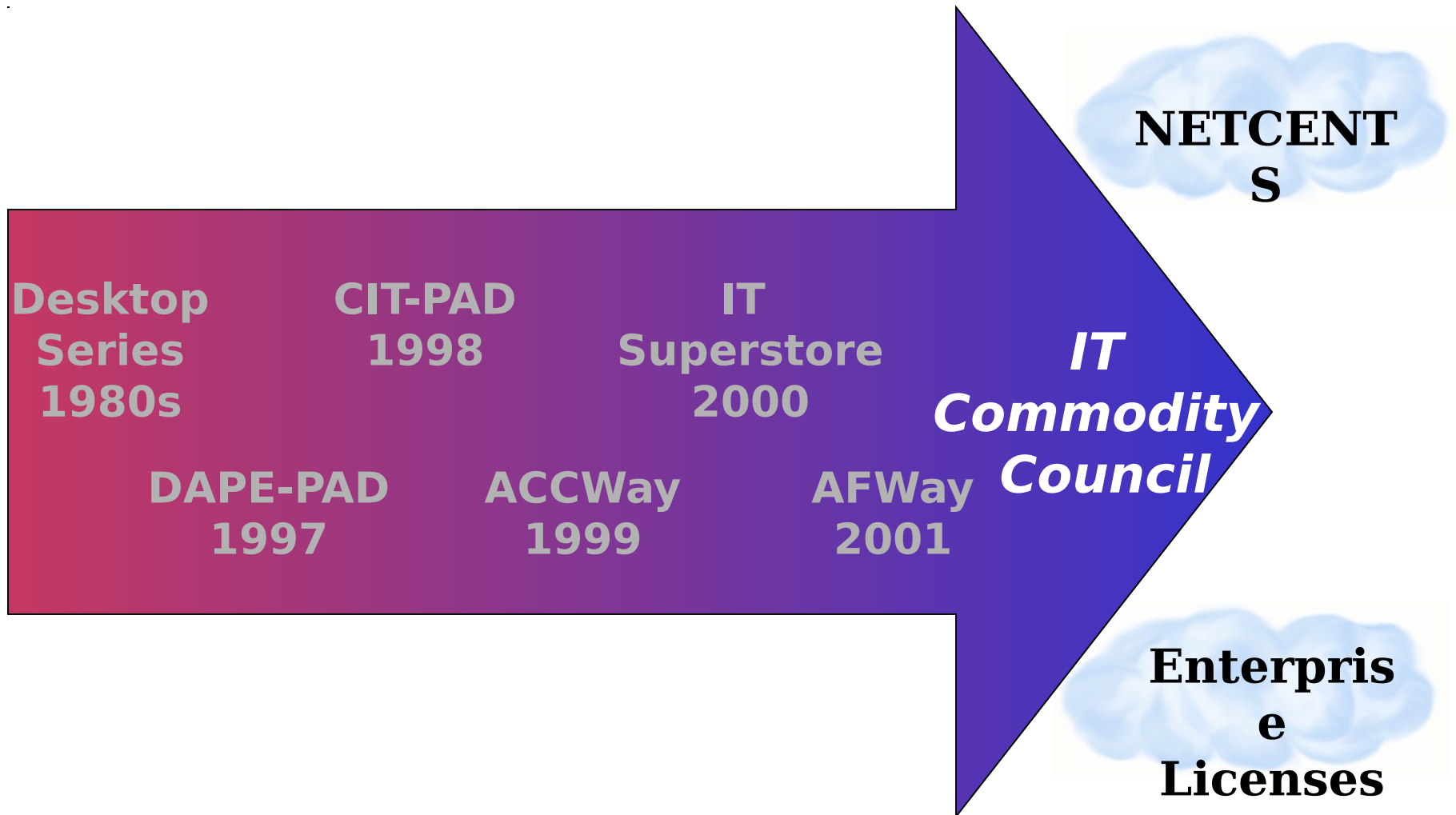
**AF Total \$6.5B  
(FY04)  
“7% of AF TOA”**





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# ***IT Procurement Evolution***



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# Enterprise-wide IT Purchasing (IT Commodity Council)

**Architecture  
&  
Standards**

Infostructure Architecture Council

- Standards
- Architecture
- Potential Standards

Standards

**Commodity  
Strategy**

**Commodity  
Strategy  
Approval**

→

Assessment  
Opportunities

eBusiness Tool

- Web-enabled front-end
- Gathers business intelligence
- Allows eOrdering from agency

**Procurement  
&  
Purchasing**

IT Commodity Council

- Technical / Product Forecast
- Assess AF needs
- Develop ACQ Strategy

AF-CIO & SAF/AQ

- Policy/Enforcement





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# Enterprise-wide IT Purchasing (Methods)

**Consolidated  
Purchases**



**Enterprise Licenses  
where it makes sense"**

**"IT Commodit  
Council"**

**ORACLE.COM**  
BIG BUSINESS • SMALL BUSINESS • ALL BUSINESS

**Microsoft**



**E-GPC**

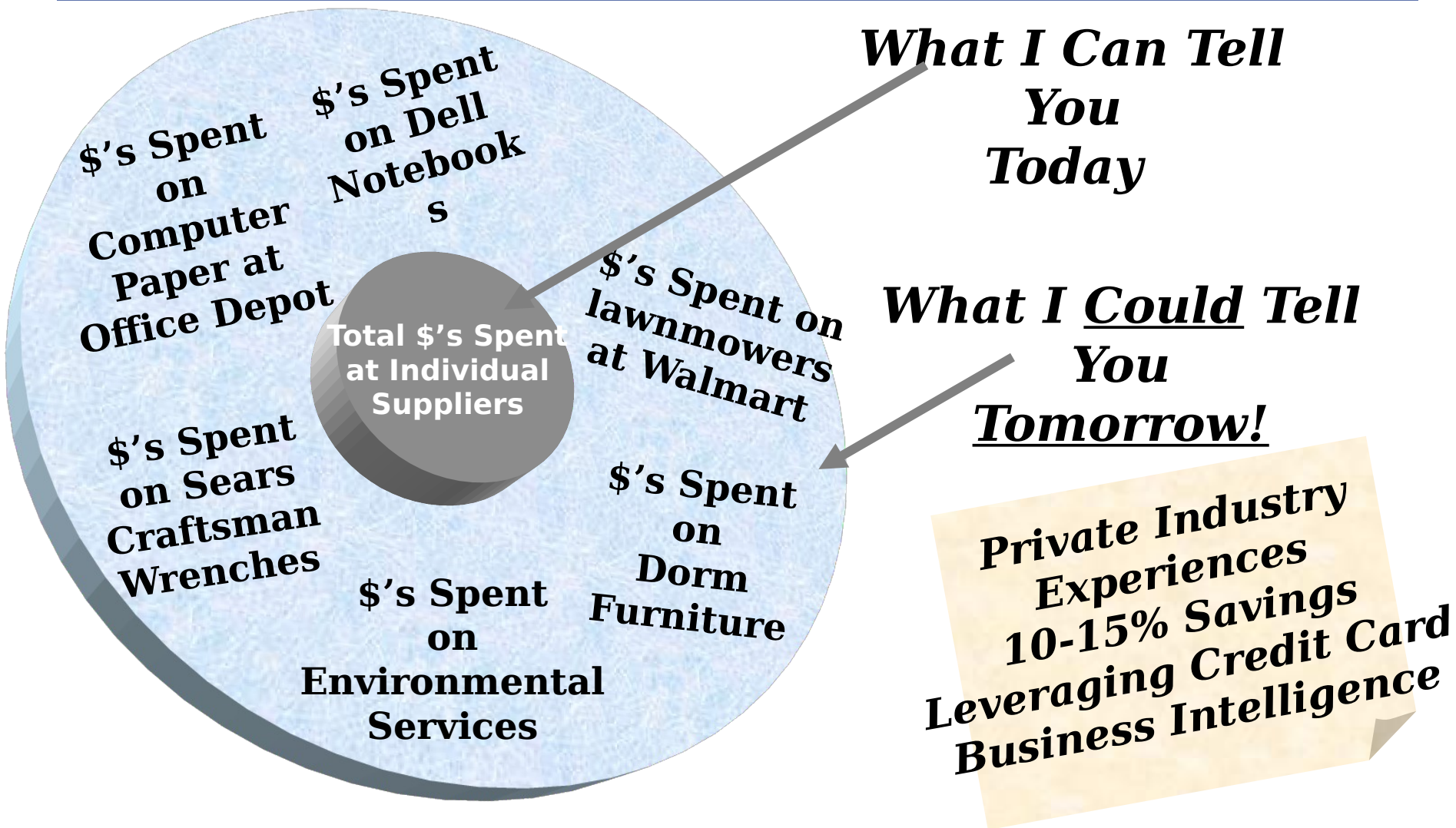
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# Knowledge Management

## *"Leveraging Business Intelligence"*



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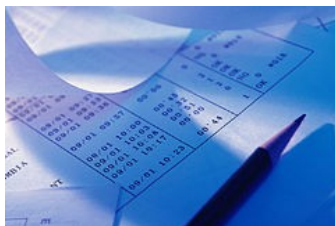




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# ***Summary***

***“We’re well on our way!!!”***



## ***Air Force is:***

- ***Pursuing an Enterprise Approach***
- ***Continuing transformation efforts to increase business and combat efficiencies***
- ***Partnering across Air Force***

**MAJCOM / Functional support is key to sustaining momentum!**

**Vision: Precise and secure decision quality information... integrated and fused... supporting the warfighter!**

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# ***Backup***



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# ***Next Step: Enterprise Services***

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- **Migrate from base-level to AF enterprise services and expand from NIPRNet to SIPRNet**
  - **Increase standardization**
  - **Further consolidation: Regional, MAJCOM, Air Force wide**
- **Standards-based, enterprise purchasing (IT Commodity Council)**
- **Develop a consistent model for resourcing infrastructure and applications/services**



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# ***Transforming Commodity Procurement***

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***To...***

- Enable e-Procurement at point of need
- Adapt flexibility to changing conditions
- Optimize buying power

***We plan to...***

- Provide an Enterprise Architecture that defines the Commodity Council's operations and systems
- Communicate rationale widely to all stakeholders
- Implement Commodity Council's business rules
- Support their processes with automation & systems

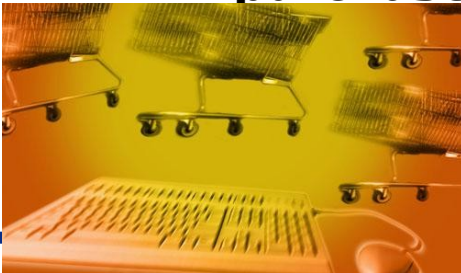


# ***IT Commodity Council***

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- **Leveraging IT dollars via IT Commodity Council and enterprise purchasing (Microsoft, Oracle, MAJCOM cooperative buy, etc)**
- **eGovernment Purchase Card (eGPC)**
  - **a pilot to help drive understanding of business rules/workflow w/in an electronic procurement environment, helps change buying behavior, improves purchase tracking**
- **AFWay**
  - **Online procurement via AFWay continues to evolve (going to COTS soon); recently mandated for desktop/laptop purchases; key to ITCC data capture/analysis needs**



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# ***IT Commodity Council Key Objectives***

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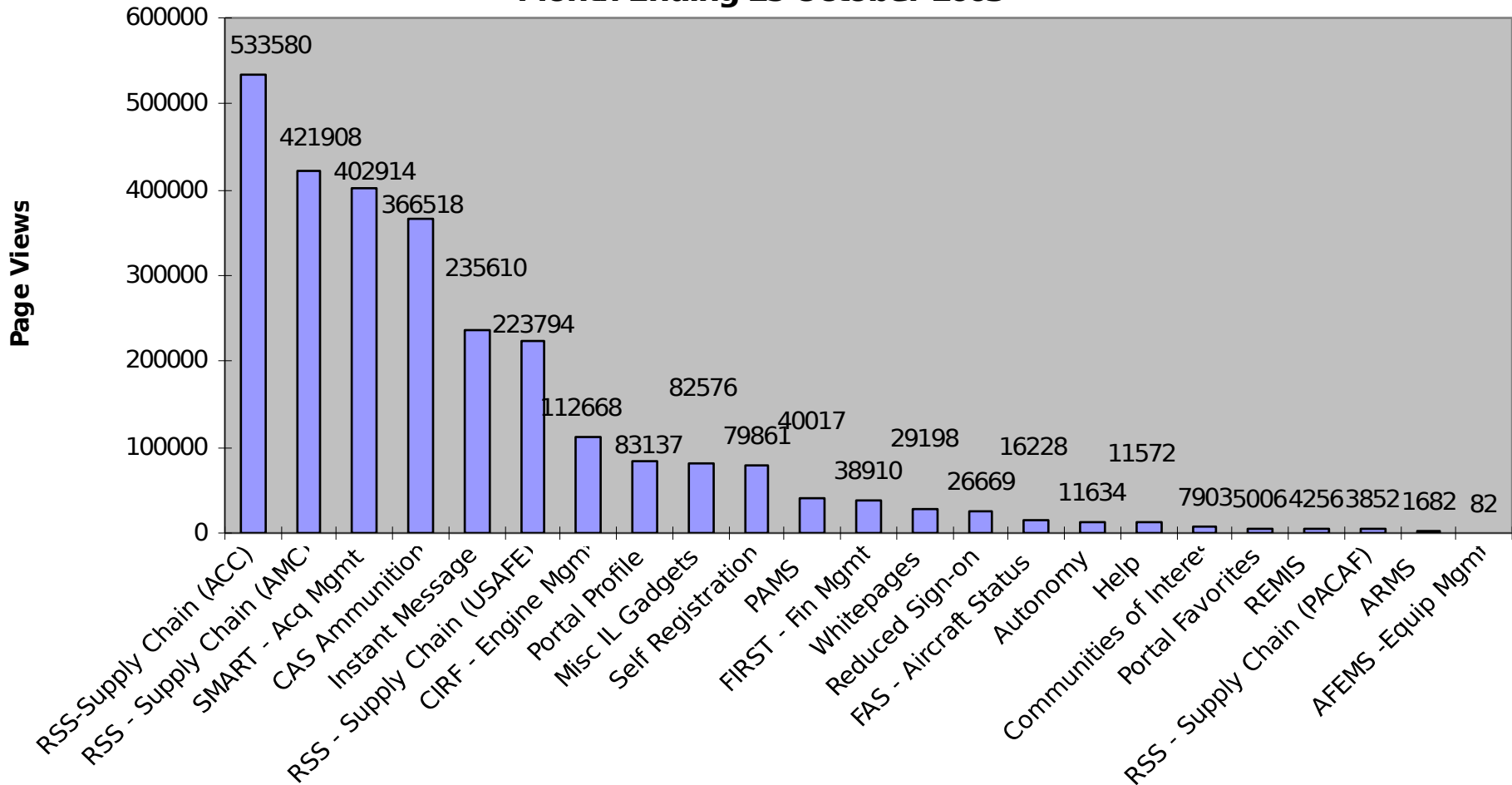
- **Fulfill user needs for IT commodities**
- **Develop AF-wide IT procurement strategies in advance**
  - **Standards-based**
  - **Aligned w/ CIO community vision**
  - **Consistent process**
- **Reduce IT commodity acquisition cost**
- **Ensure alignment between Air Force policy and commodity strategies**
- **Ensure top performing vendors, highest quality products, at the best value for each commodity category**



# AF Portal: Top Capabilities

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**Top Capabilities**  
**Month Ending 25 October 2003**



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# ***GCSS-AF/AF Portal***

## ***"Way-Ahead"***

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- **April 2004**
  - **Portal accounts Air Force wide**
  - **All unclassified self-service applications**
  - **Single sign-on & role based access via PKI certificates**
  - **Current Web pages (.mil restricted)**
    - **Implement a common look and feel**
    - **Single content structure and management process**
    - **Eliminate Redundant web content**
    - **Utilize enterprise servers**
- **Similar Portal objectives for SIPRNET by January 2005**

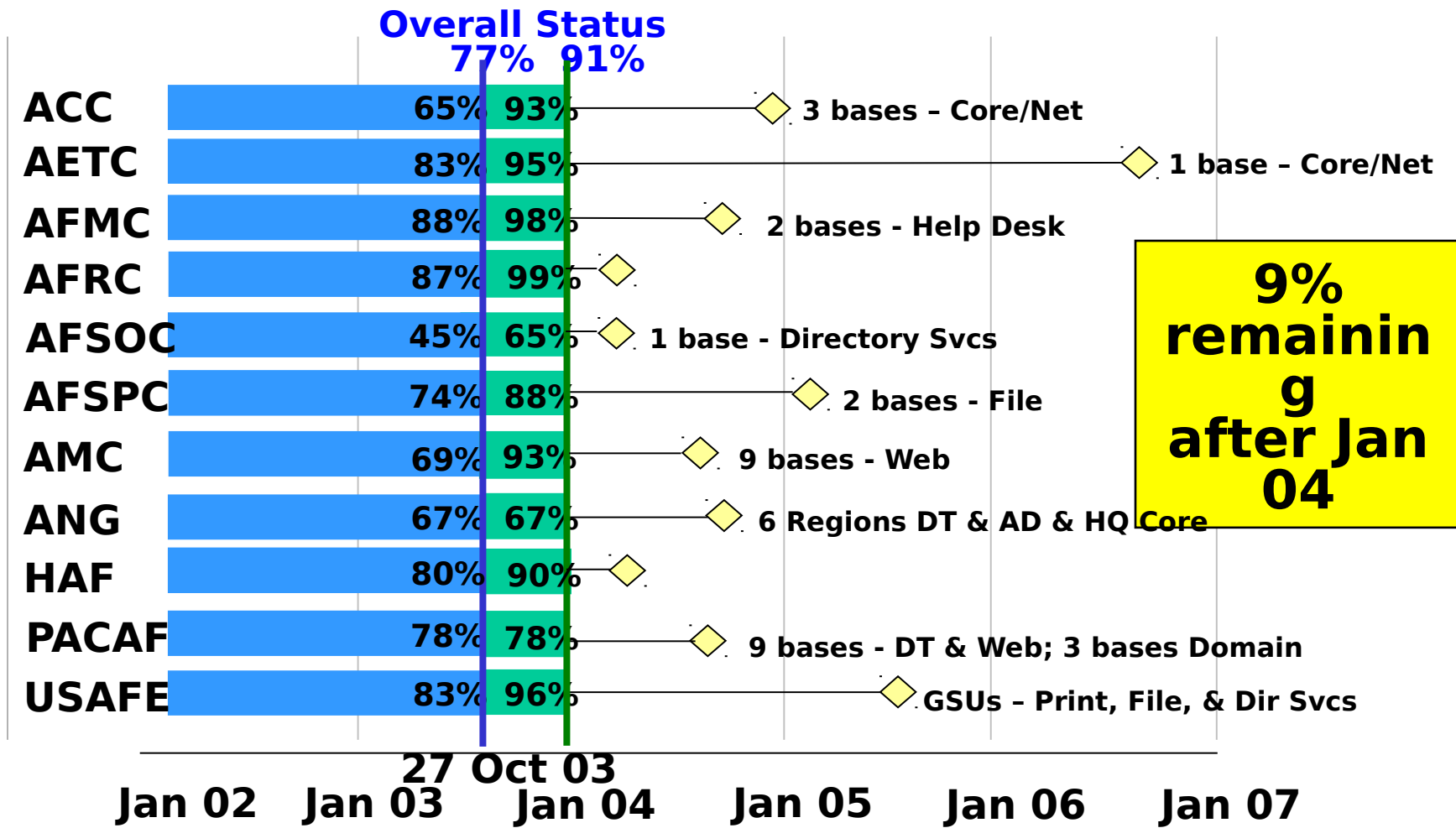




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# Server Consolidation:

## "Overall Progress"



**Strong accomplishments due to leadership of MAJCOM and Functional CIOs**

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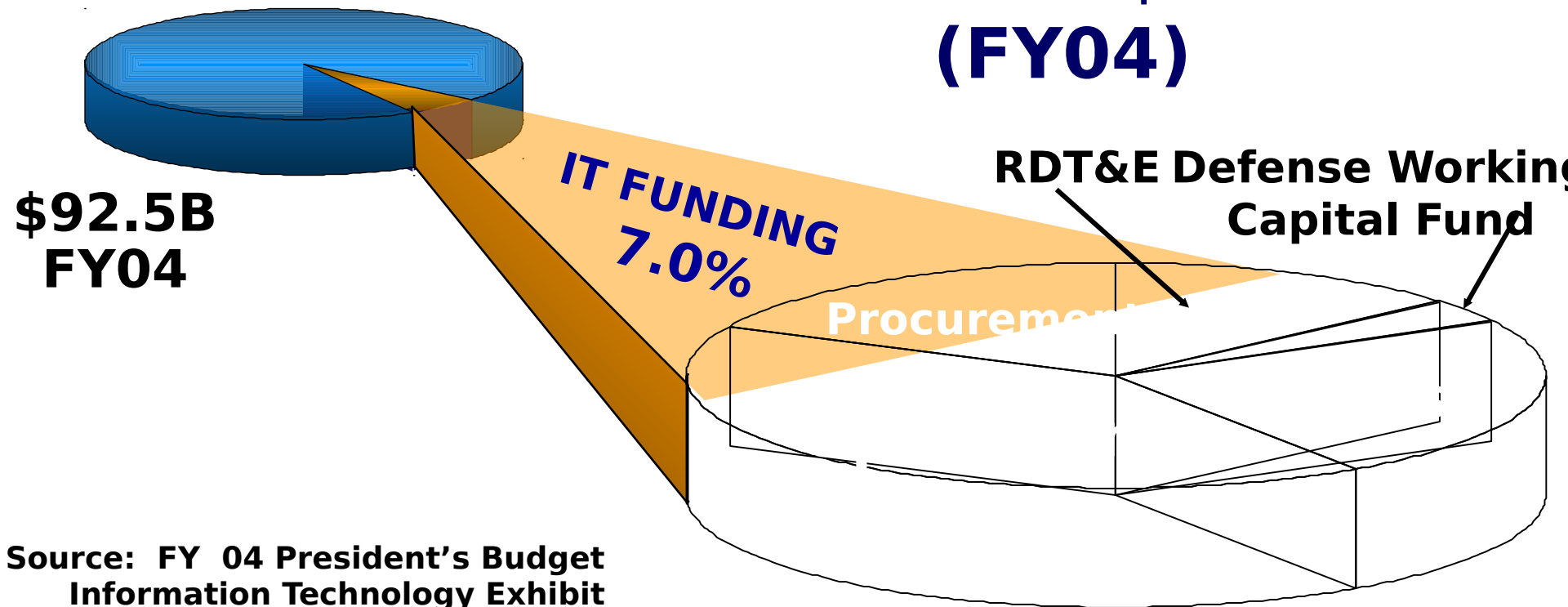
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# Air Force IT Funding Budget

*The Big Picture*  
DOD Total IT Budget \$28B  
(FY04)

AF Total Blue TOA

AF Total \$6.5B  
(FY04)





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# ***Portfolio Management***

## ***“Importance of IT Spending Visibility”***

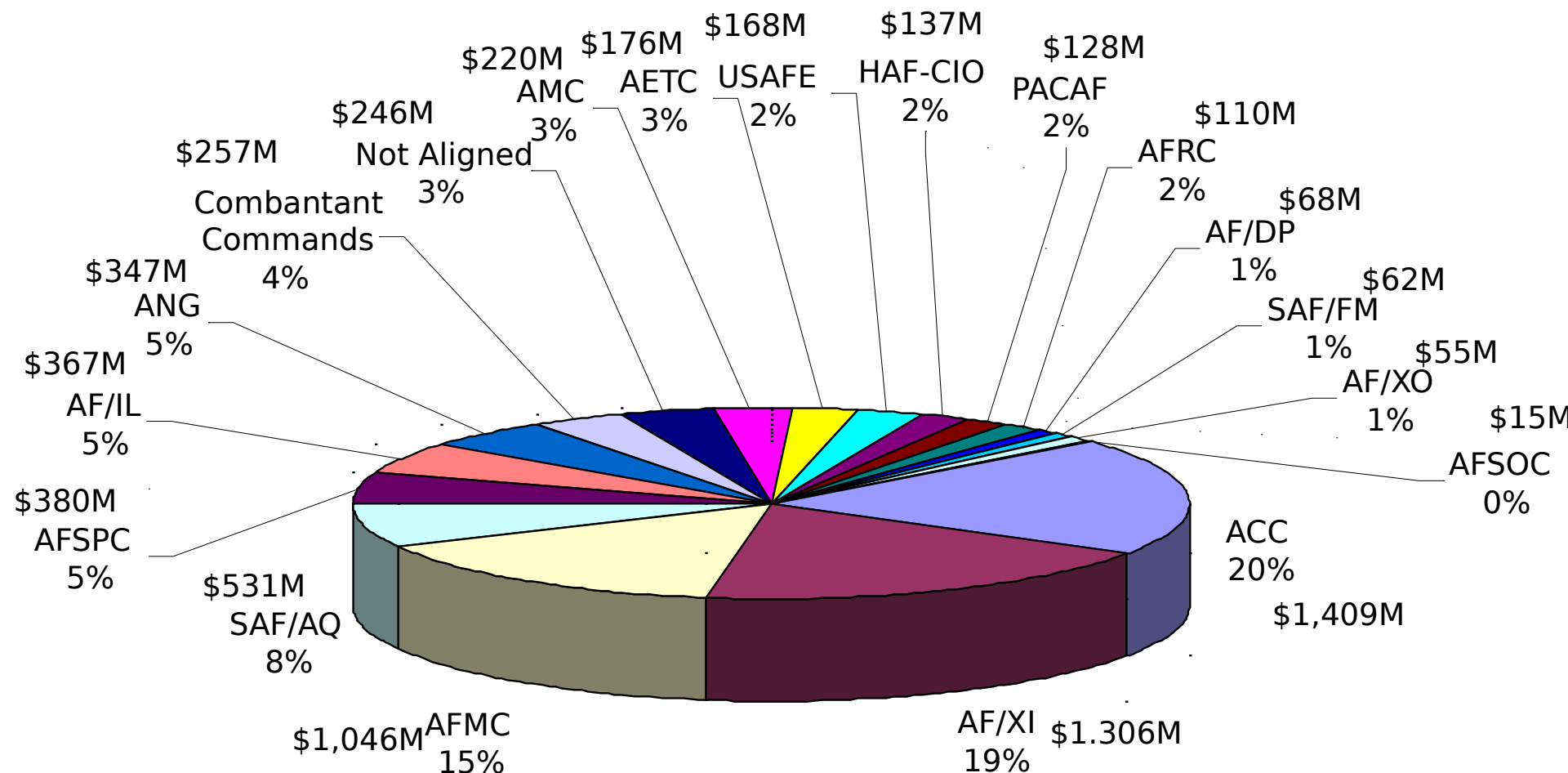
- IT critical to mission success—huge \$ investment in IT
- Visibility enables us to:
  - Link IT investments with measurable “effect” and “capability” provided to the warfighter
  - Identify and track IT resources more efficiently
  - Determine accurate baselining and tracking of IT costs to support AF IT initiatives and AF transformation

***Visibility: ensuring focused IT investments produce measurable productivity increases and justify infrastructure investments***



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# IT Portfolio Management



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# ***Portfolio Management*** ***“Way-Ahead”***

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- **MAJCOM and Functional communities are implementing IT Portfolio Management processes, allowing them to:**
  - **Assess, prioritize, and allocate funding for IT**
  - **Identify redundancies and opportunities for increased efficiencies**
- **AF-CIO provides guidance regarding portfolio management and will provide an annual assessment of the Air Force’s IT portfolio**
- **Portfolio management processes to be in place in each MAJCOM and Functional community to support the FY06 POM cycle**



# Enterprise Architectures

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## Federal Enterprise Architecture (FEA)

### DoD/Joint Enterprise (GIG, DoD-BEA)

#### AF Enterprise

#### AF Enterprise Architecture

 = "Sub-Enterprise" Architectures

C4ISR  
WAR FIGHTING  
ENTERPRISE  
ARCHITECTURE

Business &  
Combat Support  
Enterprise  
Architecture  
(BEA)

Military-unique Infrastructure  
Infostructure Enterprise Architecture  
Common Use Infrastructure

INTEGRATED  
ARCHITECTURES  
(e.g., CONOPs;  
C2C SIAP; GCSS;  
etc.)

Install & Log Personnel Finance Mgt Acquisition IAC Health Svcs  
Combat Ops Mobility Ops Space Ops Mod & Sim Special Ops Weather Air Traffic Mgt

AF Warfighting/Mission Support Architectures

Program/Node Architectures

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# ***Enterprise Architecture***

## **■ Mission**

- Establishes clear picture of mission, strategies, and supporting technology across the enterprise
- Underpins a change control process over IT projects
- Enables reuse, reduces duplication of effort, and leverages economies of scale
- Promotes information and knowledge sharing
- Communicates standards and guidance

## **■ Policy and Guidance**

- Enterprise Architecture
- Web enabled technologies
- Data strategy
- Authentication
- Standardization

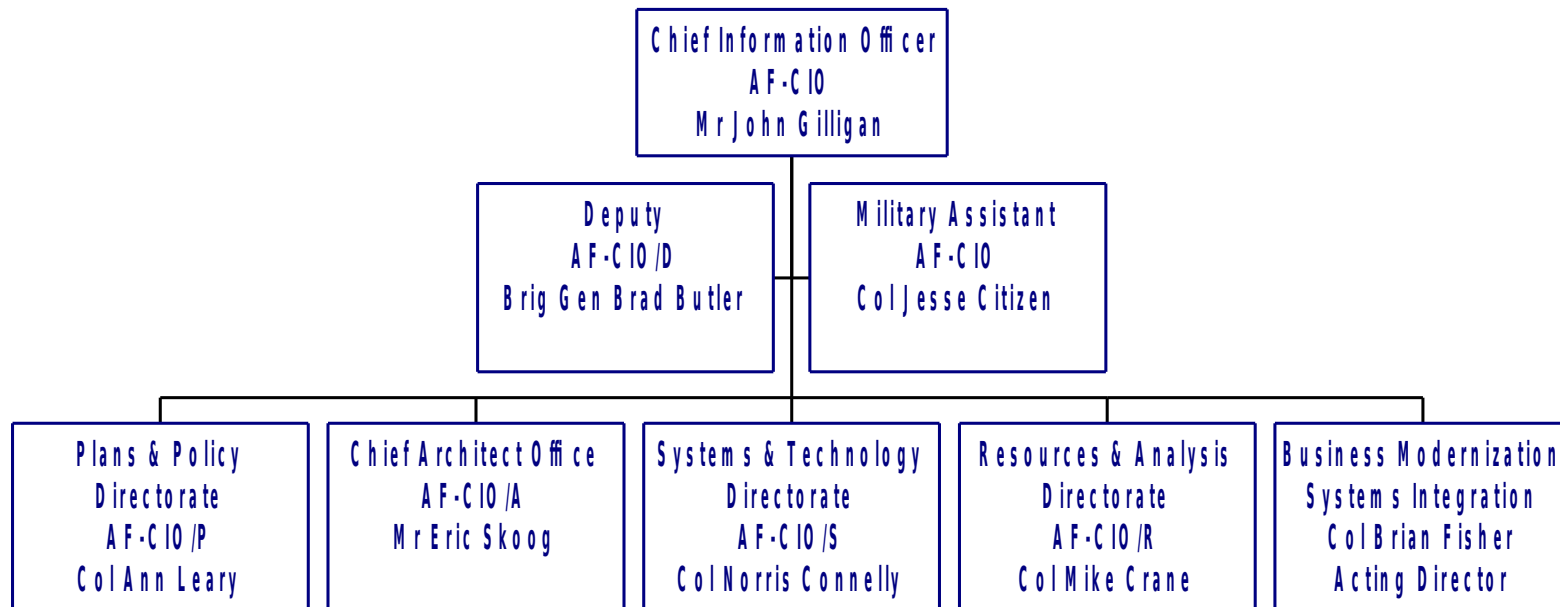
## **■ Governance**

- Enterprise Architecture Integration Council (EAIC)
- Mission Support Arch Council/Guidance
- Collaboration with OSD, OMB, GAO, etc



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# ***Chief Information Office (AF-CIO)***







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# CIO Activities and Initiatives

## Portal

**24 / 7 Real-time  
worldwide access  
Reduced Sign on  
Self-Service Applications  
Over 750,000 registered**

## Cyber Security

**Defend System and  
Networks  
Protect Information  
Current State - “good  
and improving”  
Development of Security  
Strategy**

## Server Consolidation

**\$200M+ Cost Avoidance  
Increase Service levels  
Over 4000 Servers  
Eliminated  
1000+ Manyears  
Returned**

## Budget

**DoD IT Budget \$28B  
AF IT Budget \$6.5B  
Identify and track IT  
resources more efficiently  
Implement Portfolio  
Management Across Air**

**Force**

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# **GCSS-AF**

## **Accomplishments to Date**

- **Combat Support Apps and Tools**
  - 50+ Logistics services/links and tools
  - 200+ links to Quality of Life Apps
- **On-Line collaboration**
- **Access from any computer**
- **Current news**
- **Reduced sign on**
- **Integrated search**
- **E-Learning tools**
- **MAJCOM Pilots**
  - Consolidated Web sites/Reduced Web Servers
  - Standardized look & feel for MAJCOM, BASE, Org views
- **Self registration for up to 750,000 users**

## **Where are We Going**

- Increase availability AF-wide FY04
- Integrate/eliminate cross-functional community web servers
- All web-based apps available through portal
- Self service applications
- Advanced Robust data/content search
- Role-based access
- SIPRNet
- Personalized workspace
  - User customization & alert notifications
- Knowledge library

**Connecting People and Information Together in Ways that  
Fundamentally Change the Way the Air Force Does Business**

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# ***Server Consolidation Benefits***

- **Estimated \$200M+ cost avoidance per year**
  - 47% attributed to manpower recaptured
- **Increased Service Levels**
  - Networks more stable - increased uptime - lower failure rate
  - SCOPE Network: improved config mgmt/standards/compliance/tracking
- **Reduced Resources**
  - NCC/NOSCs have absorbed workload without manpower increase
  - 1000+ equivalent manyears returned to core duties
  - Over 4000 servers eliminated
- **Improved Security**
  - Rapid deployment of patches/updates
  - Improvement in C4 situational awareness
- **Streamlined Networks**
  - Centrally managed services, management of network traffic
  - Decrease in network outages and SITREPs
  - Stronger performance, better computer defense posture

***It's not just about saving money...it's about creating an AF-wide enterprise architecture necessary to enable the Warfighting Mission***